

**ABSTRACT****A method for processing of multi-component liquid mixtures and a plant for its implementation**

5       The present group of inventions relates to processing of multi-component liquid mixtures (MCLM) employing reforming process, preferably for vacuum distillation of hydrocarbon mixtures and can be applied in petroleum refining and chemical industries.

10       The group of invention comprises the method for processing of multi-component liquid mixtures and the plant for its implementation

15       The claimed method of MCLM separation comprises pressurized feeding of hydrocarbon liquid mixture to an ejector nozzle with its further discharging to a vacuum chamber. The novel feature of the method is creation of additional counterpressure jointly with the ejector providing for concentration of power in the vacuum chamber to form a pressure surge.

20       The claimed plant for MCLM processing comprises a feeding pump, a head delivery main, a discharge main, control instrumentation and an evacuating device comprising a horizontal vacuum chamber. The novel feature of the plant is embodiment of the evacuating device as a hydraulic/gas ejector, integrated into the front end wall of the vacuum chamber, the length of which exceeds its cavity diameter by the factor 7 to 10, this plant further comprising a counterpressure regulator connected through a pipeline to the rear end wall of the vacuum chamber, and a vacuum pressure gauge connected to the vacuum chamber in the latter's front section.

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2 independent claims, 2 dependent claims, 5 tables, 1 drawing